

(12)特許協力条約に基づいて公開された国際出願

(19)世界知的所有権機関
国際事務局(43)国際公開日
2004年10月21日 (21.10.2004)

PCT

(10)国際公開番号
WO 2004/090882 A1

(51)国際特許分類:

G11B 7/24

(74)代理人: 河宮 治, 外(KAWAMIYA, Osamu et al.); 〒540001 大阪府大阪市中央区城見1丁目3番7号 IMPビル青山特許事務所 Osaka (JP).

(21)国際出願番号:

PCT/JP2004/004778

(22)国際出願日:

2004年4月1日 (01.04.2004)

(25)国際出願の言語:

日本語

(81)指定国(表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CI, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GI, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PI, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26)国際公開の言語:

日本語

(30)優先権データ:

特願2003-101160 2003年4月4日 (04.04.2003) JP

(71)出願人(米国を除く全ての指定国について): 松下電器産業株式会社 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) (JP/JP); 〒5718501 大阪府門真市大字門真1006番地 Osaka (JP).

(72)発明者; および

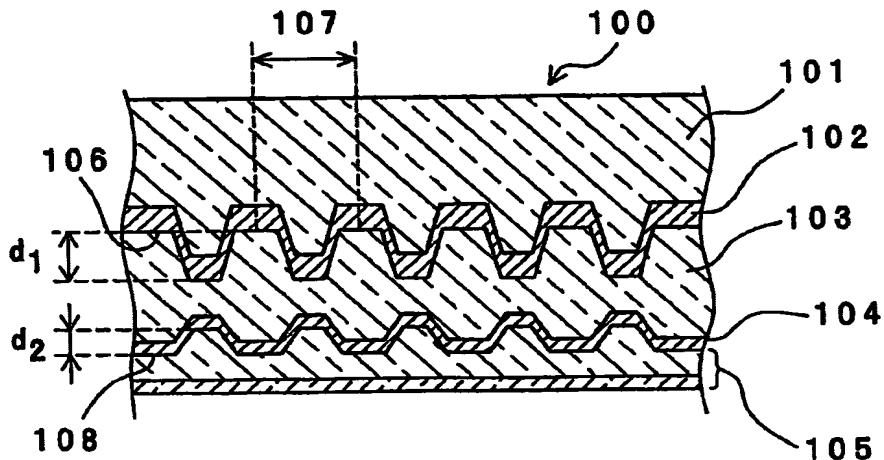
(75)発明者/出願人(米国についてのみ): 富山 盛央 (TOMIYAMA, Morio), 阿部 伸也 (ABE, Shinya), 川口 俊子 (KAWAGUCHI, Yuuko), 大野 銀二 (OHNO, Eiji).

(84)指定国(表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,

/統葉有/

(54)Title: OPTICAL RECORDING MEDIUM AND PROCESS FOR PRODUCING THE SAME

(54)発明の名称: 光記録媒体とその製造方法



(57) Abstract: An optical recording medium comprising a first substrate having a first pit in one surface, a first reflective layer formed on the surface of the first substrate having the first pit to reflect the protrusions/recesses of the first pit, a second substrate formed on the first reflective layer and having a second pit in the surface opposite to the first reflective layer, a second reflective layer formed on the surface of the second substrate having the second pit to reflect the protrusions/recesses of the second pit, and a cover layer formed on the second reflective layer. First pit depth d_1 , i.e. the difference between protrusions and recesses of the first reflective layer, wavelength λ of a laser light for signal reproduction, and refractive index n_1 of the second substrate satisfy the following relations; $\lambda/(5n_1) \leq d_1 \leq \lambda/(3n_1)$, and $d_1 \neq \lambda/(4n_1)$. Second pit depth d_2 , i.e. the difference between protrusions and recesses of the second reflective layer, wavelength λ of the laser light for signal reproduction, and refractive index n_2 of the cover layer satisfy the following relations; $\lambda/(5n_2) \leq d_2 \leq \lambda/(3n_2)$, and $d_2 \neq \lambda/(4n_2)$.

/統葉有/

WO 2004/090882 A1

BEST AVAILABLE COPY